

	Application No.	Applicant(s)	
Alotion of Allowability	10/626,146	LEARNED, RACHEL E.	
Notice of Allowability	Examiner	Art Unit	-
	YOUNG T. TSE	2611	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	/e
1. This communication is responsive to the amendment filed of	on 08 January 2007.		
2. The allowed claim(s) is/are <u>1-3,5-14 and 16-27</u> .			
 Acknowledgment is made of a claim for foreign priority una. All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit	ENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declarate	tion is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-9	948) attached	
1) hereto or 2) to Paper No./Mail Date		·	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	gs in the front (not the back) of l).	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Date	(PTO-413),	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendm		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material Output Date	8. Examiner's Stateme 9. Other	nt of Reasons for Allowance	
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Application/Control Number: 10/626,146

Art Unit: 2611

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Scott J. Asmus on February 1, 2007.

The application has been amended as follows:

In claim 1, line 13, "said high" and "output" have been changed to "said bank of high" and "outputs", respectively; and lines 16-17, the term "said plurality of refined information streams, and" has been deleted.

In line 4 of both claims 2 and 12, the word "FANO" has been changed to "Fano algorithm".

In claim 3, line 5, the comma "," after the word "decoders" has been deleted.

In claim 5, line 2, the term "a deinterleaver" has been changed to "a first deinterleaver"; line 4, the term "an interleaver" has been changed to "a first interleaver"; line 6, the term "a deinterleaver" has been changed to "a second deinterleaver"; line 9, the term "an interleaver" has been changed to "a second interleaver"; and lines 2-3, 5, 7 and 9, the terms "each output stream of" and "each output of" have been deleted.

In claim 8, line 2, the term "coupled to" has been changed to "coupled between"; and line 4, the comma "," after the word "unit" has been deleted.

In claim 9, line 3, the comma "," after the word "bank" has been deleted.

Application/Control Number: 10/626,146

Art Unit: 2611

In claim 11, line 23, the comma "," before the word "and" has been deleted; and line 32, the word "output" has been changed to "outputs".

In claim 13, line 3, the word "are" has been changed to "is".

Claim 15 has been canceled.

In line 2 of both claims 18 and 20, the term "said front end" has been changed to "said front end section".

In claim 19, line 3, the comma "," after the word "filters" has been deleted.

In claim 20, line 1, the word "apparatus" has been deleted.

In claim 22, line 8, the term "detector and" has been changed to "detector by a bank of high complexity error correction decoders"; line 15, the term "said steps of" has been deleted; and line 18, the word "output" has been changed to "output by a bank of low complexity error correction decoders".

In claim 25, lines 3 and 4, the term "said high" has been changed to "said bank of high"; and lines 3 and 5, the term "said low" has been changed to "said bank of low".

In claim 27, line 2, the term "further comprising computing" has been changed to "wherein computing the".

2. The following is an examiner's statement of reasons for allowance: the prior art fails to show or suggest that a hybrid multi-user detector, hybrid receiver or method for processing raw input data of received signals comprises a high and low complexity multi-user detector and a bank of high and low complexity error correction decoders instead of a complexity multi-user detector and a bank of complexity error correction decoders used in conventional art. Wherein the bank of low complexity error correction

decoders is coupled to the low complexity multi-user detector to generate a plurality of refined-improved information streams, the plurality of refined-improved information streams is used to feed back to the low complexity multi-user detector until a final condition is reached, wherein the bank of low complexity error correction decoders outputs a final plurality of symbol streams.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

Art Unit 2611